BRUHAT BANGALORE MAHANAGARA PALIKE
DASARAHALLI ZONE

ne Work: Improvements to roads and drains at 3rd main & 9th cross Manjunatha gara in Ward no 14 (Bagalagunte)

	Description of Item	Unit	Est. Cost Rs				50.00 Lakhs		
			No	L	B	D	Qty	Rate	Amount
1	KSRRB 300 · Excavation for road, drains and similar works · KSRRB 300-1. Earthwork excavation by manual means in **Ordinary soil** involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH Chapter 3 (P.142/I.19.1 PW, P & IWTD -SR 2016-17)								
		Cum	1	174.00	1.20	0.95	198.36		
			1	430.00	5.50	0.40	946.00		
							1144.36	86.92	99468.00
	Basic Rate	82.00							
	Add Area Weightage 6%	4.92							
	Total	86.92							
2	KSRRB 300-53. Construction of **embankment** with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications. (which includes cost of gravel / murrum, watering charges & compaction by vibratory roller) MORTH Specification No. 305. **Page No. 148/ Item No. 19.60/ PWD SR 2016-17**								
		Cum	1	430.00	5.50	0.45	1064.25		
							1064.25	320.12	340688.00
	Basic Rate	302.00							
	Add Area Weightage 6%	18.12							
	Total	320.12							
3	KSRB 4-1.3: Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @180 kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.12/I.4.3) PWD · SR 2016 17)								
		Cum	1	174.00	1.20	0.15	31.32		
							31.32	5159.02	161581.00
	Basic Rate	4867.00							
	Add Area Weightage 6%	292.02							
	Total	5159.02							
4	KSRB 4-6.4 : Providing and removing **centering**, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications, Specification NO KBS 4.6.2 Page No 15/ Item No 4.31/PWD SR 2016-17								
		Sqm	4	174.00	1.00		696.00		
							696.00	310.58	216164.00
	Basic Rate	293.00							
	Add Area Weightage 6%	17.58							
	Total	310.58							

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	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	KSRRB M2200-5.9. Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008- i) Upto 5 m height. (Pg.No.223, It.no.28.7.9)								
	bottom of drain	Cum	1	174.00	0.90	0.15	23.49		
	sidewalls		2	174.00	0.15	0.80	41.76		
	Basic Rate	6571.00					65.25	6965.26	454483.00
	Add Area Weightage 6%	394.26							
	Total	6965.26							
6	KSRRB M2200-6. Supplying, fitting and placing TMT bar Fe 500 reinforcement in sub-structure complete as per drawing and Technical Specifications complete as per specificationsMORTH Specification No.1600 & 2200 [P. no.225 - I. No.28.8.2]								
	10mm dia bars @ 100mm c/c	Tonne	24	174.00	@	0.62	2589.12		
			1740	2.40	@	0.62	2589.12		
							5178.24		
	Basic Rate	62719.00				Say	5.17	66482.14	343713.00
	Add 6% A.W	3763.14							
	TOTAL	66482.14							
7	Supplying and fixing **precast** rainforced concee slab 10cm thick including cost of reinforcement as per design and drawing material cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface stc., complete with all leads and lift conveyance charges, labour charges inclusive of cost of all materials.								
		Sqm	1	174.00	0.90		156.60		
	Data Rates Approved by CE DZ enclosed						156.60	1698.00	265907.00
8	KSRRB M400-1 For Grading I material construction of **granular sub-base** by providing coarse graded crushed stone aggregates of Granite/ trap/basalt material spreading in uniform layers with motir grader on prepared surface mixing by a mix in place method with rotawater at OMC, and Compacting with vibratory roller to achieve the desired density, complete as per specifications.by mix in a Place method for course Graded Granular Sub Base Material as per 400-2 for grading I material . Page No 155/ Item No. 20.6.1 PWD SR 2016-17								
		Cum	1	430.00	5.50	0.10	236.50		
	Basic Rate	1433.00					236.50	1518.98	359239.00
	Add Area Weightage 6%	85.98							
	TOTAL	1518.98							
9	Providing, laying, spreading and compacting graded stone aggregates to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. Specification No. 406 with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work.(PWD SR 2016-17, P.No.158, I No.20.18)								

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	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Roads	Cum.	1	430.00	5.50	0.23	543.95	1768.08	961747.00
	Basic Rate	1668.00							
	Add Area Weightage 6%	100.08							
	Total	1768.08							
10	Providing and applying **primer coat** with S.S. Bitumen emulsion on prepared surface of granular base such as WBM, WMM including clearing of road surface and spraying primer at the rate of 0.6 kg / sqm using mechanical means complete as per specifications, with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work.(PWDSR 2016-17, P.No.161, I No.21.6)								
		Sqm	1	430.00	5.50		2365.00		
							2365.00	27.56	65179.00
	Basic Rate	26.00							
	Add Area Weightage 6%	1.56							
	Total	27.56							
11	KSRRB 500-7: Providing and applying **tack coat on the prepared black topped** surfaces at 5kg per 10 sqm, heating bitumen in boiler fitted with spray set (Excluding cleaning of road surface) including cost of all Materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5 Page No. 161/ Item No. 21.7/ PWD SR 2016-17								
		Sqm	1	430.00	5.50		2365.00		
							2365.00	11.66	27576.00
	Basic Rate	11.00							
	Add Area Weightage 6%	0.66							
	Total	11.66							
12	Providing and laying **bituminous macadam** on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50/75mm compacted thickness with 3.3% bitumen but excluding the cost of primer/tack coat with lead incl. cost of all materials, labour, HOM of machineries complete as per specifications with 80/100 grade bitumen using 40/60TPH capacity H.M.P with Mechanical paver Gr II (50/75mm) with 3.3% VG-30 Bitumen as per the directions of Engineer-in-charge of the work (PWDSR 2016-17, P.No.162, I No.21.11.6)								
		Cum	1	430.00	5.50	0.05	118.25		
	Basic Rate	4839.00					118.25	5129.34	606544.00
	Add Area Weightage 6%	290.34							
	Total	5129.34							

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	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
13	Providing and laying bituminous concrete with hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder and filter transporting the hot mix to work site laying with paver finisher to the required grade, level and alignment. rolling with smooth wheeled vibratory and tandem rollers to achieve the desired compaction as per MORTH Speicification clause no 500.9 complete in all respects complete as per specification no 509. using 40/60 TPH Capacity H.M.P With Mechanical paver Gr-II (30 mm to 45 mm) with 6% VG-30 Bitumen (p-165, lt 21.22.6) PWD SR 2016-17								
		Cum	1	430.00	5.50	0.03	70.95		
	Basic Rate	6683.00					70.95	7083.98	502608.00
	Add Area Weightage 6%	400.98							
	Total	7083.98							
14	Disposal of debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work, lead 4 Km a) Basic rate for haulage of materials as per item No. 17.4/KSRRB : M100-4.1 ..... Rs. 2.00 Tonne/Km b) Average earth of work 1.28 Tonne/Km for Rs. 2.00/Km c) Add loading and unloading Page No. 133 Item No. 17.1 PWD SR 2016-17						1144.36	85.65	98012.00
		Cum	Qty Vide Item No. 1						
	Loading and Unloading Charges	68.00							
	Lead 4 KMs 2x1.28x4	12.80							
		80.80							
	Add Area Weightage 6%	4.85							
	Total	85.65							
							Sub Total		4502909.00
15	GST, KRIDL & Labour cess Charges 7+3+1=11%								495320.00
16	Miscellaneous								1771.00
								Total	5000000.00

Rupees Fifty Lakhs Only

(CERTIFICATE:-

1 The Work spot has been inspected and the work is found to be necessary

2 The Estimate is prepared as per the PW,P & IWTD -SR-2016-17

3 The Provision made in estimate are adequate and essential.

4 This area comes under BBMP limits.

Assistant Engineer
Ward No 14

Assistant Executive Engineer
T. Dasarahalli Sub-Division
B.B.M.P

Executive Engineer
Dasarahalli Division
B.B.M.P. Bangalore.

ನಂ: CE/TS/237/17-18 ದಿನಾಂಕ : 31/10/2017
ರೂ. Rs. 50.00 lakh only/-
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ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

ನಂ.EE/DD/AS/202/17-18 ದಿನಾಂಕ : 21-10-2017
ರೂ. ಐವತ್ತು ಲಕ್ಷ ಮಾತ್ರ
Rs 50 lakhs only
ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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